



Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in active PFC function
- IP67 design for indoor or outdoor installations
- UL1310, Class 2 power unit
- Cooling by free air convection
- 100% full load burn-in test
- Suitable for LED light and moving sign applications.
- High reliability
- 3 years warranty

SPECIFICATION

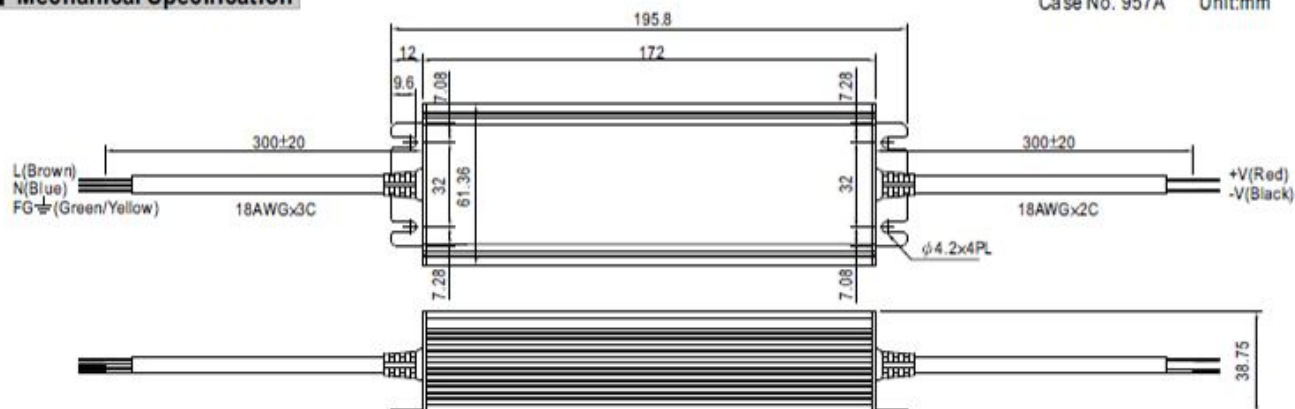


MODEL	CLG-60-12	CLG-60-15	CLG-60-20	CLG-60-24	CLG-60-27	CLG-60-36	CLG-60-48
DC VOLTAGE	12V	15V	20V	24V	27V	36V	48V
RATED CURRENT	5A	4A	3A	2.5A	2.3A	1.7A	1.3A
CURRENT RANGE	0 ~ 5A	0 ~ 4A	0 ~ 3A	0 ~ 2.5A	0 ~ 2.3A	0 ~ 1.7A	0 ~ 1.3A
RATED POWER	60W	60W	60W	60W	62.1W	61W	62.5W
RIPPLE & NOISE (max.) Note.2	2Vp-p	2.4Vp-p	1.8Vp-p	2.7Vp-p	2.7Vp-p	3.6Vp-p	1.8Vp-p
VOLTAGE ADJ. RANGE	11 ~ 13V	13.8 ~ 16.2V	18 ~ 22V	22 ~ 26V	25 ~ 30V	32.5 ~ 39V	38 ~ 50V
CURRENT ADJ. RANGE	Fixed can be modified between the range above						
VOLTAGE TOLERANCE Note.3	±10%						
LINE REGULATION	±4.0%						
LOAD REGULATION	±10%						
SETUP, RISE TIME	1500ms, 100ms / 230VAC 3000ms, 100ms / 115VAC at full load						
VOLTAGE RANGE Note.5	90 ~ 264VAC						
FREQUENCY RANGE	47 ~ 63Hz						
POWER FACTOR	PF>0.9/230VAC PF>0.98/115VAC at full load						
EFFICIENCY (Typ.)	83%	84.5%	86.5%	86.5%	87%	87%	88%
AC CURRENT	0.8A/115VAC 0.4A/230VAC						
INRUSH CURRENT (max.)	40A/230VAC						
LEAKAGE CURRENT	0.5mA / 240VAC						
OVER CURRENT	95 ~ 110% (120% max.) Protection type: Over current limiting, recovers automatically after fault condition is removed						
SHORT CIRCUIT Note.4	Hiccup mode, recovers automatically after fault condition is removed						
OVER VOLTAGE	13.8 ~ 16.2V	14.7 ~ 21V	22.8 ~ 26.5V	25 ~ 32V	31 ~ 35V	41 ~ 46V	54 ~ 60V
OVER TEMPERATURE	12V: 120°C (TSW1) Detect on heat sink of power transistor 15V ~ 48V: 55°C ±10°C (TSW1) Detect on heat sink of power transistor Protection type: Shut down o/p voltage, recovers automatically after temperature goes down						
WORKING TEMP.	-25 ~ +70°C (Refer to output load derating curve)						
WORKING HUMIDITY	20 ~ 90% RH non-condensing						
STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH						
TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)						
VIBRATION	10 ~ 500Hz, 2.5g min./1000g, period for 60min. each along X, Y, Z axes						
SAFETY STANDARDS	UL 1310 Class 2, UL CSA C22.2 No. 223-M91 (except for 48V), EN61347-1, EN61347-2-13, IP67 Approved						
WITHSTAND VOLTAGE	IP-O/P: 1000VAC						
ISOLATION RESISTANCE	100MΩ/1000VDC/500VDC						
EMI CONDUCTION & RADIATION	Conformance to EN55015, EN55022 (CISPR22) Class B						
HARMONIC CURRENT	Conformance to EN61000-3-2, -3						
EMS IMMUNITY	Conformance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, EN55024, EN61547 Light industry level, criteria A						
MTBF	100,000 hrs min. MIL-HDBK-217F (25°C)						
DIMENSION	172*61.5*39mm (L*W*H)						
PACKING	0.86Kg; 16pcs/14.8Kg/0.54CUFT						
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. Please refer to OLP characteristics. 5. Derating may be needed under low input voltage. Please check the derating curve for more details.						

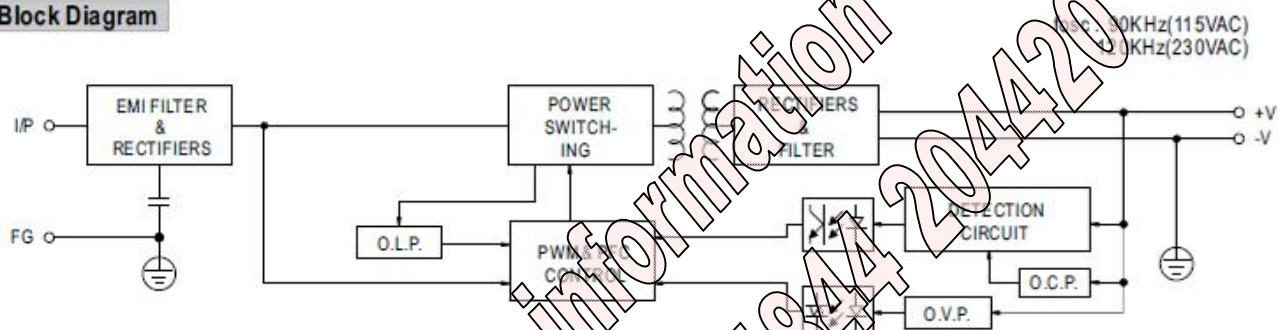
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■ Mechanical Specification

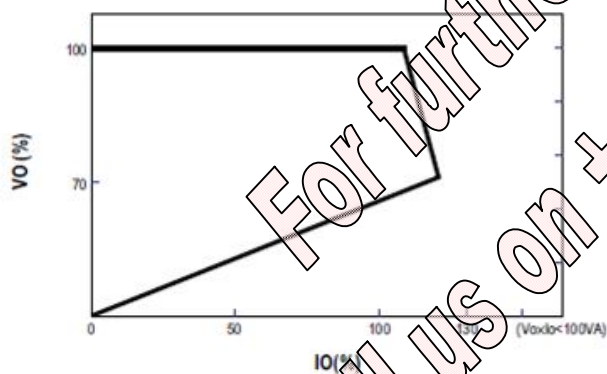
Case No. 957A Unit:mm



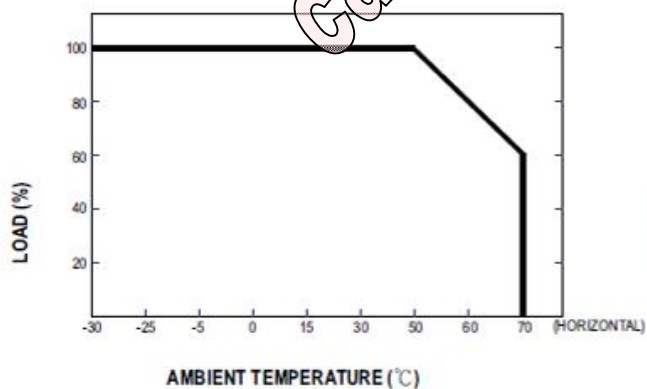
■ Block Diagram



■ OLP Characteristics



Derating Curve



■ Static Characteristics

